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### **1.** Identification

Product Name	: FYFANON 8 LB. EMULSION
Synonyms	: None
Product Use	: Organophosphorous Pesticide
Manufacturer/Supplier	: Helena Chemical Company
Address	: 225 Schilling Blvd. Collierville, TN 38017
General Information	: 901-761-0050
Transportation Emergency Number	: CHEMTREC:800-424-9300

## 2. Hazard Identification



Signal Word	: Warning
Skin Irritation	: Not classified as hazardous under 29 CFR 1910.1200 (2012)
Eye Irritation	: Causes eye irritation
Acute Toxicity Oral	: LD50 >550 mg/kg (rat)
Acute Toxicity Dermal	: LD50 >2,000 mg/kg (rabbit)
Hazard Categories	: Oral/Derm/Inh Tox-4/4/4; Eye Irr-2B; Skin Sensitization-1; STOT,Single-2; Comb Liq-4; Aquatic Tox-2
Hazard Statement	: Harmful if swallowed Harmful in contact with skin Causes eye irritation Harmful if inhaled May cause an allergic skin reaction May cause damage to organs May cause damage to organs through prolonged or repeated exposure Combustible liquid Toxic to aquatic life

## 3. Composition / Information on Ingredients

Component	CAS Number	Weight %	
Malathion (O,O-Dimethyl phosphorodithioate of diethyl mercatosuccinate)	121-75-5	81.8	
Confidential formulation aids	Proprietary	18.2	



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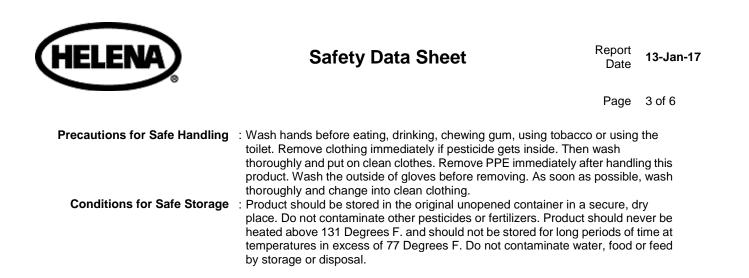
## 4. First Aid Measures

Еуе	: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continuing rinsing eye. Call a poison control center or doctor for treatment advice.
Skin	: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
Inhalation	: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Ingestion	: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth if unconscious.
Indication of Immediate Medical Attention and Special Treatment Needed	: Treat symptomatically. Symptoms may be delayed. This product may cause cholinesterase inhibition. Atropine is antidotal. 2-PAM may be effective as an adjunct to atropine.

5. Fire Fighting Measures		
Extinguishing Media	: Use dry chemical, carbon dioxide, alcohol foam, foam, water spray or water fog extinguishing agents.	
Specific Hazards Arising from the Chemical	: Product will decompose rapidly when heated to temperatures at or over 280 Degrees F. Release of volatile, toxic compounds such as dimethyl sulfide, sulfur dioxide, carbon monoxide and phosphorus pentoxide are possible.	
Special Fire Fight Proc	: Wear self-contained breathing apparatus and full protective clothing. Fight fire from upwind. Avoid runoff.	

#### 6. Accidental Release Measures

Personal Precautions	: Avoid inhalation of vapors and spray mist. Avoid contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing.
Protective Equipment	: Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.
Emergency Procedures	: Prevent contamination to streams, sewers, lakes and ponds.
Methods and Materials for Containment and Cleanup	: Small Spills: Wipe up with absorbent cloth. Clean surface thoroughly to remove residual contamination. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with vermiculite, dry sand or earth. Collect and place in containers. Flush contaminated area thoroughly with water, absorb and place in containers with collected product.



#### 8. Exposure Controls / Personal Protection

	<ul> <li>Malathion: PEL=15 mg/m3 (total dust), skin; TLV=1 mg/m3 (measured as inhalable fraction and vapor).</li> <li>Provide adequate general and local exhaust ventilation.</li> </ul>
Personal Protective Equipment	: Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

#### 9. Physical and Chemical Properties

Odor/Appearance	: Straw to amber-colored liquid; mild petroleum odor
••	: 198.5 Degrees F.
Boiling Point, oF	: No data available
Melting Point(Freezing point), oC	: No data available
Vapor Pressure, mm Hg @ 20 oC	: Not established
Vapor Density	: No information found
Solubility in Water	: Soluble
Molecular Formula	: Not applicable, formulated mixture.
Density, g/mL @ 25 ₀C	: 1.19
Evaporation Rate(Butyl Acetate =	: Not established
1) Octanol/Water Partition Coefficient	: No information found
рН	: 3.69 (10%)
Flammable Limits (approximate volume % in air)	: No data available
Auto-ignition Temperature	: No data available
Decomposition temperature	: 280 Degrees F.

10. Stability and Reactivity



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Chemical Stability	: Stable
	<ul> <li>Volatile toxic compounds, such as dimethyl sulfide, sulfur dioxide, carbon monoxide, and phosphorus pentoxide, may be released in a fire situation.</li> <li>Will not occur</li> </ul>
Conditions to Avoid	: Excessive heat, open flame or extreme cold.
Incompatible Materials	: Strong bases and oxidizers. This product can corrode iron, steel, tin plate and copper. Rapidly hydrolyzed at pH>7.0.

## **11.** Toxicological Information

Acute Toxicity (Oral I D50)	: >550 mg/kg (rat). Harmful if swallowed.
Acute Toxicity (Oral ED30)	. >550 mg/kg (rat). Hannun i swallowed.
Acute Toxicity (Dermal LD50)	: >2,000 mg/kg (rabbit). Harmful in contact with skin.
Acute Toxicity Inhalation LC50	: >5.1 mg/L/4 hour (rat). Harmful if inhaled.
Likely Routes of Exposure	: Ingestion, skin, inhalation, eyes.
Skin Irritation	: Not classified as hazardous under 29 CFR 1910.1200 (2012).
Eye Irritation	: Causes eye irritation.
Skin Sensitization	: May cause an allergic skin reaction.
Carcinogenic	: ACGIH-Not classifiable as human carcinogen. IARC-Unclassifiable as to carcinogenicity in humans.
Chronic Effects	: Specific Target Organ Toxicity, Repeated Exposure: May cause damage to organs through prolonged or repeated exposure.
Other Hazards	: Specific Target Organ Toxicity, Single Exposure: May cause damage to organs (eyes, skin, respiratory system, liver, blood cholinesterase, CNS, CVS, GI tract).

#### **12.** Ecological Information

Persistence and Degradability	<ul> <li>: Toxic to aquatic life (acute). This product is toxic to fish and aquatic invertebrates. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.</li> <li>: Malathion is biodegradable but does not fulfill criteria for being readily biodegradable.</li> <li>: Bioconcentration potential is low (BCF 95).</li> </ul>
Mobility in Soil	: Malathion is of medium mobility in soil under normal conditions, but degrades rapidly.
Other Adverse Effects	: Drift or runoff may adversely affect non-target plants. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water. Do not apply when weather conditions favor drift from target area.

13. Disposal Considerations

**Waste Disposal Method** : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.



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# 14. Transport Information

UN Proper Shipping Name	: Not regulated by DOT in single containers of less than 12.5 gallons. Regulated in all sizes if shipped by air (IATA) or water (IMDG).
Transport Hazard Class	
UN Identification Number	: None
Packaging Group	: None
Environmental Hazards	: Malathion reportable quantity (RQ) is 100 lbs (>/= 12.5 gallons). Malathion is not listed as a Marine Pollutant per Appendix B to 49 CFR 172.101.
Transport in Bulk	: If shipped in a single package greater than or equal to 12.5 gallons, ship as: RQ, UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Malathion), 9, PG III "ERG # 171"
	: If shipped by air (IATA) or water (IMDG), ship as: UN3082, Environmentally
Transportation Freight Classification	Hazardous Substance, Liquid, n.o.s., (Malathion), 9, PG III, Marine Pollutant : Pesticides, NOI, Insecticides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)

## **15.** Regulatory Information

National Fire Protection	:			
Association Rating	Health:	2	Fire: 2	Reactivity: 0
		Rating Level	: (4-Extreme,	3-High, 2-Moderate, 1-Slight, 0-Minimum)
S.A.R.A Title III Hazard Classification (Yes/No)	:			
, , , , , , , , , , , , , , , , , , ,	Immediate( Acute) Health: Y			
	Delayed (Chronic) Health: Y			
	Sudden Release of N			
	Pressure:			
	•	ire: Y		
	Reacti	ve: N		
FIFRA Information	: This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:			
EPA Registration Number	: 5905-250			
FIFRA Signal Word				
	: Keep out of reach of children. : Harmful if swallowed or absorbed through skin.			
	: Causes moderate eye irritation.			
	: Avoid contact with eyes, skin, or clothing.			
	: Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.			
	: No additional label statements. : No additional label statements.			
FIFRA Label Statement		101113.		
6 Other Information				

16. Other Information



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